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ONE-STEP POLY- AND OLIGOUREAS PREPARATION FROM ISOMERIC DIAMINOBIPHENYLS

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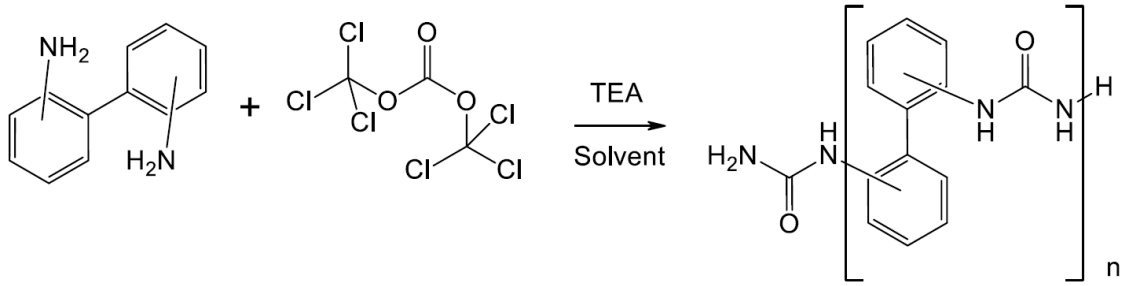
Abstract. Polyurea is a type of elastomer that is derived from the reaction product of an isocyanate component and a diamine through step-growth polymerization. We wish to report here a way for obtaining poly- and oligoureas by mean of one-step reaction between the corresponding diamino-biphenyls and triphsogene.

Depending on the nature of diamine and solvent used the reaction afforded smoothly oligoureas with a number of monomer units up to 20 or longer poly-ureas. The *in situ* formation of bis-isocyanates and their following reaction with diamines affords the desired poly/oligoureas.



The structure of the obtained compounds was confirmed by means of ^{1}H NMR, MS-spectrometry and elemental analysis.

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